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(54) ELECTROCHEMICAL CELL

(57)Abstract:

PURPOSE: To provide a cell having an increased power capacity by enlarging the surface of a separator.

CONSTITUTION: A high-temperature rechargeable electrochemical cell 10 comprises a housing 18 housing therein an anode 38 and a cathode 34 and being divided into an anode chamber and a cathode chamber respectively including anode active material and cathode active material via a sodium ion conductive solid electrolyte separator 16. The separator 16 is formed into a cylinder having a closed end and an open end, and is provided with a plurality of ribs or lobes 46 being arranged at intervals in the circumferential direction and projecting outward in the radial direction. The housing 10 is formed into a tubular canister having a polygonal cross-section in such a manner as to have corners 14 arranged at intervals in the circumferential direction in the number corresponding to the number of the lobes 46 of the separator 16. The separator 16 is disposed coaxially inside the housing 10. Each of the lobes 46 of the separator 16 is aligned with one of the corners 14 in the circumferential direction, and projects from the separator 16 toward the corner 14 in the radial direction.

